



**2<sup>ND</sup> SEM. 2005/2006**

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**UNIVERSITY OF SWAZILAND**

**SUPPLEMENTARY EXAMINATION PAPER**

**PROGRAMME: DIPLOMA IN AGRICULTURE AND  
DIPLOMA IN AGRICULTURE  
EDUCATION YEAR III**

**COURSE CODE: APH 303**

**TITLE OF PAPER: SMALL RUMINANT PRODUCTION**

**TIME ALLOWED: TWO (2) HOURS**

**INSTRUCTIONS: ANSWER ANY 4 QUESTIONS.**

**THIS PAPER MAY NOT BE OPENED UNTIL THE CHIEF  
INVIGILATOR HAS GRANTED PERMISSION.**

**QUESTION 1**

Explain the advantages and disadvantages of keeping small ruminants in Swaziland.

**(25 Marks)**

**QUESTION 2**

i. Define estrus synchronization.

**(3 Marks)**

ii. What are the benefits of estrus synchronization?

**(10 Marks)**

iii. Explain the prostaglandin method for estrus synchronization in a flock of does.

**(12 Marks)**

**QUESTION 3**

Explain the procedure of body condition scoring in sheep and goats. Discuss the importance of this procedure as a management tool for optimum reproductive performance.

**(25 Marks)**

**QUESTION 4**

Identify and discuss the factors that affect age at which puberty is attained in small ruminants.

**(25 Marks)**

**QUESTION 5**

Identify the major causes of kid mortality in goat flocks reared in the resource-poor farming systems of Swaziland. Discuss the measures you may take to reduce kid mortality.

**(25 Marks)**